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## MINOR NOTICES.

**Botanical papers at the St. Louis Congress.**—Volume V<sup>2</sup> of the series being published by the Congress of Arts and Science held in connection with the St. Louis Exposition contains the botanical papers. The department of biology was divided into eleven sections, and twenty-five principal papers were read. Those of special interest to botanists, in the order of their appearance in the volume, are as follows: Development of morphological conceptions, JOHN M. COULTER; The recent development of biology, JACQUES LOEB; A comparison between artificial and natural selection, HUGO DEVRIES; The problem of the origin of species, C. O. WHITMAN; Plant morphology, F. O. BOWER; The fundamental problems of present-day plant morphology, K. GOEBEL; The development of plant physiology under the influence of the other sciences, J. WIESNER; Plant physiology, present problems, B. M. DUGGAR; The history and scope of plant pathology, J. C. ARTHUR; Vegetable pathology an economic science, M. B. WAITE; The position of ecology in modern science, O. DRUDE; The problems of ecology, B. L. ROBERTSON; Relations of bacteriology to other sciences, E. O. JORDAN; Some problems in the life history of pathogenic micro-organisms, THEOBALD SMITH.

All of these papers have been published in various journals, notably in *Science*, but it is convenient to know that they are all accessible in a single volume.—J. M. C.

**Index Filicum.**—The eleventh fascicle of CHRISTENSEN's work has just appeared,<sup>3</sup> carrying the references from *Trichomanes Giesenhagenii* to the end of the list. There follow a list of additions, a list of corrections, and the beginning of a catalogue of literature arranged alphabetically.—J. M. C.

**Trees of Java.**—KOORDERS and VALETON<sup>4</sup> have published another fascicle of additions to the known arboreal flora of Java, containing the Moraceae. Seven genera are represented, including 95 species, 83 of which belong to *Ficus*, under which two new species are described.—J. M. C.

**Cyperaceae.**—The second part of HUSNOT's synopsis of the Cyperaceae of France, Switzerland, and Belgium has appeared,<sup>5</sup> completing the list of species, and closing with a full index.—J. M. C.

<sup>2</sup> Congress of Arts and Science, Universal Exposition, St. Louis, 1904. Edited by HOWARD J. ROGERS. Volume V. Biology, Anthropology, Psychology, Sociology. pp. xi+882. Boston and New York: Houghton, Mifflin and Company. 1906.

<sup>3</sup> CHRISTENSEN, C., Index Filicum, etc. Fasc., 11. Copenhagen. H. Hagerup. 1906. 3s. 6d.

<sup>4</sup> KOORDERS, S. H., and VALETON, TH., Boomsoorten op Java. Bijdrage no. 11. Mededeel. Depart. Landb. no. 2. pp. 277. Batavia, 1906.

<sup>5</sup> HUSNOT, T., Cypéracées: descriptions et figures des Cypéracées de France, Suisse et Belgique: Part II. pp. 49-83. pls. 13-24. Cahan, par Athis (Orne): the author. 1906. 5/r.